

ABSTRACT

A technique for gene expression specific to cells free from a specific transcription factor was found. The technique comprises constructing a recombinase expression unit in which a recombinase gene is located downstream of a promoter depending on the specific transcription factor and another unit in which two target sequences of a gene to be expressed and the recombinase are located downstream of another promoter. These units are then used to infect cells. In this technique, the recombinase is expressed in cells carrying the specific transcription factor. Recombination occurs between the recognition sequences in such a way that the target gene is not expressed but deleted. In cells free from the specific transcription factor, however, the recombinase is not expressed, and recombination does not occur between the recognition sequences, which allows the expression of the target gene.

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